

Title (en)

SECTION OF A GAS TURBINE COMPRISING A SEGMENTED BLADE OUTER AIR SEAL

Title (de)

GASTURBINENSEKTION MIT EINER SEGMENTIERTEN SCHAUFELAUSSENLUFTDICHTUNG

Title (fr)

SECTION D'UNE TURBINE À GAZ COMPRENANT UN JOINT D'ÉTANCHÉITÉ SEGMENTÉ À L'AIR EXTÉRIEUR D'AUBES

Publication

EP 3351740 B1 20200129 (EN)

Application

EP 17202846 A 20171121

Priority

US 201715405778 A 20170113

Abstract (en)

[origin: EP3351740A1] A section (46) of a gas turbine engine includes a rotor blade (102) configured to rotate about an axis. The section also includes a case (100) positioned radially outward from the rotor blade (102) and extending circumferentially about the axis. The section (46) also includes a control ring (104) being annular, positioned radially inward from the case (100) and configured to move radially relative to the case (100). The section (46) also includes a segmented blade outer air seal (BOAS) (106) including a plurality of BOAS segments each being positioned radially outward from the rotor blade (102), movably coupled to the control ring (104; 204; 304), and configured to move circumferentially relative to each other such that a circumferential gap between each of the plurality of BOAS segments changes in size in response to a temperature change in the section of the gas turbine engine. A gas turbine engine, comprises a compressor section configured to compress air; a combustor section configured to receive compressed air from the compressor section, to combust a mixture of the compressed air and fuel, and to output exhaust; and a turbine section configured to convert the exhaust into torque to power the compressor section.

IPC 8 full level

F01D 11/18 (2006.01)

CPC (source: EP US)

F01D 5/20 (2013.01 - US); **F01D 11/025** (2013.01 - US); **F01D 11/18** (2013.01 - EP US); **F01D 25/246** (2013.01 - US); **F02C 3/04** (2013.01 - US); **F04D 29/083** (2013.01 - US); **F04D 29/324** (2013.01 - US); **F04D 29/526** (2013.01 - US); **F04D 29/642** (2013.01 - US); **F05D 2220/32** (2013.01 - US); **F05D 2240/11** (2013.01 - EP US); **F05D 2240/307** (2013.01 - US); **F05D 2240/55** (2013.01 - US); **F05D 2300/171** (2013.01 - US); **F05D 2300/177** (2013.01 - US)

Cited by

EP3653846A1; US10920618B2; US11028715B2; US10822964B2; US10934941B2; US11339722B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 3351740 A1 20180725; **EP 3351740 B1 20200129**; US 10344612 B2 20190709; US 2018202306 A1 20180719

DOCDB simple family (application)

EP 17202846 A 20171121; US 201715405778 A 20170113